



1

SEQUENCE LISTING

<110> TCHISTIAKOVA, LIOUDMILA
LI, SHENGMIN
PIETRZYNSKI, GRZEGORZ
ALAKHOV, VALERY

<120> LIGAND FOR VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR

<130> 082181-36154 CON

<140> 10/784,589

<141> 2004-02-23

<150> 09/775,743

<151> 2001-02-02

<160> 43

<170> PatentIn Ver. 3.3

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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (16)

<223> AMIDATION

<400> 1

Asn	Gly	Tyr	Glu	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met	Tyr
1					5				10					15	

<210> 2

<211> 17

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<220>

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peptide

<220>

<221> MOD_RES

<222> (17)

<223> AMIDATION

<400> 2

Cys	Asn	Gly	Tyr	Glu	Ile	Glu	Trp	Tyr	Ser	Trp	Val	Thr	His	Gly	Met
1					5				10					15	

Tyr

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<220>
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 <222> (1)
 <223> ACETYLATION

<220>
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 <223> AMIDATION

<400> 3
 Cys Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met
 1 5 10 15

Tyr

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<220>
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 <222> (1)
 <223> Fam-Asn

<220>
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 <222> (16)
 <223> AMIDATION

<400> 4
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 5
 <211> 19
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<220>
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 peptide

<220>
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 <222> (1)
 <223> Fam-Glu

<220>
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<400> 5
 Glu Glu Glu Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His
 1 5 10 15

Gly Met Tyr

<210> 6
 <211> 15
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
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 <222> (1)
 <223> Fam-Asn

<220>
 <221> MOD_RES
 <222> (15)
 <223> AMIDATION

<400> 6
 Asn Gly Tyr Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 7
 <211> 16
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 <213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (2)..(3)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (7)..(9)
<223> Variable amino acid

<220>
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<222> (11)..(15)
<223> Variable amino acid

<400> 7
Asn Xaa Xaa Glu Ile Glu Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Tyr
  1               5               10               15

<210> 8
<211> 16
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)
<223> Asn or Gln

<220>
<221> MOD_RES
<222> (2)..(3)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (4)
<223> Negatively charged amino acid comprising of Glu
      or Asp

<220>
<221> MOD_RES
<222> (5)
<223> Ile, Leu, Val, or Met

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<220>
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 <222> (6)
 <223> Negatively charged amino acid comprising of Glu
 or Asp

<220>
 <221> MOD_RES
 <222> (7)..(9)
 <223> Variable amino acid

<220>
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 <222> (10)
 <223> Aromatic amino acid comprising of Trp, Phe, Tyr,
 or His

<220>
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 <222> (11)..(15)
 <223> Variable amino acid

<220>
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 <222> (16)
 <223> Aromatic amino acid comprising of Tyr, Trp, Phe,
 or His

<400> 8
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

<210> 9
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 9
 gggccggttaa cgggtacgag atcgagtgggt actcgtgggt cagcacggg atgtacggtg 60
 gcgcttctg 69

<210> 10
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 10
 gggccggtcc ggagcccag gtccggttga gtccgccggg tcatatccag tcgctcgggtg 60

gcgcttctg

69

<210> 11

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11

gggccgggttt tgtggggggg tggttgggttc cggaggacga gcggctctac ccggaggggtg 60
gcgcttctg 69

<210> 12

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 12

aagcgccacc

10

<210> 13

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 13

accggccccg t

11

<210> 14

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 14

Ala Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
1 5 10 15

<210> 15
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 15
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 1 5 10 15

<210> 16
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 16
 Asn Gly Tyr Glu Ala Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 17
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 17
 Asn Gly Tyr Glu Ile Ala Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 18
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 18
 Asn Gly Tyr Glu Ile Glu Ala Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 19
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 19
 Asn Gly Tyr Glu Ile Glu Trp Ala Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 20
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 20
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ala Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 21
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 21
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Ala Val Thr His Gly Met Tyr
 1 5 10 15

<210> 22
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 22
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Ala His Gly Met Tyr
 1 5 10 15

<210> 23
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 23
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr Ala Gly Met Tyr
 1 5 10 15

<210> 24
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 24
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Ala Tyr
 1 5 10 15

<210> 25
 <211> 16
 <212> PRT
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<220>
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 peptide

<400> 25
 Asn Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Ala
 1 5 10 15

<210> 26
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 26
 Asn Gly Tyr Ala Ile Ala Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 27
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 27
 Asn Gly Tyr Glu Ile Glu Ala Tyr Ser Ala Val Thr His Gly Met Tyr
 1 5 10 15

<210> 28
 <211> 7
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 28
 Glu Ile Glu Trp Tyr Ser Trp
 1 5

<210> 29
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 29
 Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10

<210> 30
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 30
 ataacaagct tggcgcgagg atgggggtg

<210> 31
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 31
 ataactctag aacggtggca gcagcatgtc ac 32

<210> 32
 <211> 85
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 32
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 actctggggc cggatctaga caaca 85

<210> 33
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 33
 gccgccacca tgg 13

<210> 34
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 34
 Gln Gly Tyr Glu Ile Glu Trp Tyr Ser Trp Val Thr His Gly Met Tyr
 1 5 10 15

<210> 35
 <211> 16
 <212> PRT
 <213> Artificial Sequence


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<210> 39
<211> 7
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
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<400> 39
Tyr Ala Phe Gly Tyr Pro Ser
  1                      5
```

```
<210> 40
<211> 6
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
        6xHis tag
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```
<400> 40
His His His His His His
  1                               5
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```
<210> 41
<211> 4
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide linker
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<400> 41
Ser Gly Ala Gly
      1
```

```
<210> 42
<211> 500
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<220>
<223> This sequence may consist of 4 to 500 Lys residues

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<400> 42
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1             5             10            15
```

[illegible]

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

325 330 335

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

340 345 350

[illegible]

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
370 375 380

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
385 390 395 400

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

405 410 415

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

. 420 425 430

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
435 440 445

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
450 455 460

[illegible]

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

 485 490 495

Lys Lys Lys Lys
500

<210> 43

 $\langle 211 \rangle$ 1000

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Description of Artificial Sequence: Synthetic polypeptide

$\langle 220 \rangle$

<223> This sequence may consist of 2 to 500 Ala-Lys repeating residues

<400> 43

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
1 5 10 15

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
20 25 30

Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	35	40	45
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	50	55	60
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	65	70	75
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	85	90	95
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	100	105	110
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	115	120	125
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	130	135	140
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	145	150	155
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	165	170	175
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	180	185	190
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	195	200	205
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	210	215	220
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	225	230	235
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	245	250	255
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	260	265	270
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	275	280	285
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	290	295	300
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	305	310	315
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	325	330	335

Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	340	345	350	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	355	360	365	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	370	375	380	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	385	390	395	400
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	405	410	415	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	420	425	430	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	435	440	445	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	450	455	460	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	465	470	475	480
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	485	490	495	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	500	505	510	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	515	520	525	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	530	535	540	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	545	550	555	560
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	565	570	575	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	580	585	590	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	595	600	605	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	610	615	620	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	625	630	635	640

Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				645				650						655	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				660				665						670	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				675				680						685	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				690				695						700	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				705				710						715	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				725				730						735	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				740				745						750	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				755				760						765	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				770				775						780	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				785				790						795	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				805				810						815	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				820				825						830	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				835				840						845	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				850				855						860	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				865				870						875	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				885				890						895	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				900				905						910	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				915				920						925	
Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys	Ala	Lys
				930				935						940	

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
945 950 955 960

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
965 970 975

Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys Ala Lys
980 985 990

Ala Lys Ala Lys Ala Lys Ala Lys
995 1000